

Claims Amendment Under Article 34

1. A glass article with a metal member joined thereto, comprising:
an electroconductive coating film formed on at least a part of a
5 surface of the glass article by baking a silver paste that includes Ag particles
and a glass frit,
wherein a joining plane of the metal member is fixed onto the
electroconductive coating film with a lead-free solder alloy containing Sn as a
main component, and the lead-free solder alloy contains at least 1.5 mass% of
10 Ag.
2. The glass article according to claim 1, wherein the lead-free solder
alloy contains 2 to 4 mass% of Ag.
- 15 3. The glass article according to claim 1, wherein the electroconductive
coating film is at least one selected from an antenna and a defogger.
4. The glass article according to claim 1, wherein the metal member is a
metal terminal comprising a leg part having at least two joining planes and a
20 connection part that projects upward from the leg part and is to be connected
to a cable.
5. A glass article with a metal member joined thereto, comprising:
an electroconductive coating film containing Ag,
25 wherein the electroconductive coating film is formed on at least a part
of a surface of the glass article, at least two joining planes of the metal
member are fixed onto the electroconductive coating film with a lead-free
solder alloy containing Sn as a main component, and a total area of the at
least two joining planes is in a range of 37 mm² to 50 mm².
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6. The glass article according to claim 5, wherein the total area is in a
range of 40 mm² to 45 mm².
7. The glass article according to claim 5, wherein the lead-free solder
35 alloy contains 1.5 to 5 mass% of Ag.
8. The glass article according to claim 5, wherein the electroconductive

coating film is at least one selected from an antenna and a defogger.

5 9. The glass article according to claim 5, wherein the electroconductive coating film is formed by baking a silver paste that includes Ag particles and a glass frit.

10 10. The glass article according to claim 5, wherein the metal member is a metal terminal comprising a leg part having the at least two joining planes and a connection part that projects upward from the leg part and is to be connected to a cable.

15 11.(Amended) A glass article according to claim 5, wherein with respect to each of the at least two joining planes, a volume of the lead-free solder alloy is 1.0 to 2.0 times the product of an area of the joining plane concerned and a thickness of the lead-free solder alloy.

12.(Canceled)

20 13.(Canceled)

14.(Canceled)

15.(Canceled)

25 16.(Canceled)

30 17. A junction structure, comprising a glass article according to claim 1, wherein a cable is connected to a connection part of the metal member, and the cable and the electroconductive coating film are connected electrically to each other.

35 18. A junction structure, comprising a glass article according to claim 5, wherein a cable is connected to a connection part of the metal member, and the cable and the electroconductive coating film are connected electrically to each other.

19.(Canceled)